

### Abstract

In a case where the services are used jointly among plural users with the use of shared electronic keys, a method which invalidates only the electronic keys of some users  
5 is provided.

Electronic key data stored in a user module 100 owned by the user includes two kinds of data: main ID data and sub ID history data. A service providing device 400 holds two tables: a service allowance table and a service denial  
10 table, and upon receipt of the electronic key data from the user module 100, it allows the use of the services (Step 106) only when the main ID data of the electronic key is present in the service allowance table (Step 104) and when the sub ID data contained in the sub ID history data is absent  
15 in the service denial table (Step 105).